



## EMC TEST REPORT For RCM

Test Report No. : KES-EM-22T0120-R1  
Date of Issue : Feb. 24, 2023  
Product name : NETWORK CAMERA  
Model/Type No. : XNP-6400R  
Variant Model : -  
Applicant : Hanwha Vision Co., Ltd  
Applicant Address : 6, Pangyo-ro 319Beon-gil, Bundang-gu, Seongnam-si,  
Gyeonggi-do, Republic of Korea  
Manufacturer : 1. HANWHA VISION VIETNAM COMPANY LIMITED  
2. D-TECH CO.,LTD.  
Manufacturer Address : 1. Lot O-2, Que Vo Industrial Zone extended area,  
Nam Son commune, Bac Ninh city, Bac Ninh province, Vietnam  
2. 173-25, Saneop-ro, Gwonseon-gu, Suwon-si, Gyeonggi- do,  
Korea (Suwon Industrial Complex)  
Date of Receipt : Jan. 11, 2022  
Test date : Jan. 12, 2022 ~ Jan. 13, 2022  
Test Results : ☒ **In Compliance** ☐ **Not in Compliance**

Tested by

Eun Gu, Jeon  
EMC Test Engineer

Reviewed by

Dong-Hun, Jang  
EMC Technical Manager

This test report is not related to KS Q ISO/IEC 17025 and KOLAS.

**KES Co., Ltd.**

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**REPORT REVISION HISTORY**

Date	Test Report No.	Revision History
Jan. 26, 2022	KES-EM-22T0120	Issued
Feb. 24, 2023	KES-EM-22T0120-R1	Change the Applicant and Manufacturer at the request of the customer

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## 1.0 General Product Description

### Main Specifications of EUT are:

	XNP-6400R
<b>Video</b>	
Imaging Device	1/2.8" 2MP CMOS
Effective Pixels	1944(H)x1212(V)
Min. Illumination	Color: 0.05Lux(F1.6, 1/30sec) BW: 0Lux(IR LED On)
Video Out	None
<b>Lens</b>	
Focal Length (Zoom Ratio)	4.25~170mm(40x) zoom
Max. Aperture Ratio	F1.6(Wide)~F4.95(Tele)
Angular Field of View	H: 65.66°(Wide)~1.88°(Tele) / V: 39.40°(Wide)~1.09°(Tele)
Min. Object Distance	5m(16.4ft)
Focus Control	Oneshot AF, Focus save
Lens Type	DC auto iris
<b>Pan / Tilt / Rotate</b>	
Pan Range	360° Endless
Pan Speed	Max. 700°/sec, Manual: 0.024°/sec~250°/sec
Tilt Range	110°(-20°~90°)
Tilt Speed	Max. 500°/sec, Manual: 0.024°/sec~250°/sec
Sequence	Preset(300ea), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule, Preset trace recording
Preset Accuracy	±0.1°(±20°C by temperature at preset setting) / ±0.2°(other temperature)
Azimuth	Support
Auto Tracking	Object auto tracking(Person/Vehicle)
<b>Operational</b>	
IR Viewable Length	200m(656.17ft)
Camera Title	Displayed up to 85 characters, Direction Indicator
Day & Night	Auto(ICR)/Color/BW/Schedule
Backlight Compensation	BLC, HLC, WDR
Wide Dynamic Range	150 dB
Digital Noise Reduction	SSNRV
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, polygonal Support - Color: Grey/Green/Red/Blue/Black/White - Mosaic

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Gain Control	Manual / Max
White Balance	ATW, NARROW ATW, Manual, AWC, OUTDOOR, INDOOR, MERCURY, SODIUM
LDC	None
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip&Mirror
Analytics	Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Shock detection * Audio detection, Sound classification(with NW I/O Box)
Business Intelligence	None
Serial Interface	None
Alarm I/O	None
Alarm Triggers	Analytics, Network disconnect * Alarm input(with NW I/O Box)
Alarm Events	File upload via FTP and e-mail  Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers PTZ Preset * Alarm output(with NW I/O Box)
Audio In	None
Audio Out	None
Wiper / Waterdrop removal	Spinning Dry, Heat film
<b>Network</b>	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264,MJPEG
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Smart Codec	Manual(Sea area), WiseStreamII
Video Quality Adjustment	H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control

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Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast (128 user) Multiple streaming(Up to 10 profiles)
Audio Compression	None
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTP
Security	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device certificate(Hanwha Techwin Root CA)
Edge Storage	Micro SD/SDHC/SDXC 2slot 1TB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	4GB RAM, 512MB Flash
<b>Environmental</b>	
Operating Temperature / Humidity	-40°C~+50°C (-40°F ~ +122°F) / Less than 95% RH(Non-condensing) Start up should be done at above -30°C Maximum Temperature : +55°C(+131°F), intermittent Absolute maximum(According to NEMA TS2, 2.2.7) : +74°C
Storage Temperature / Humidity	-50°C~+60°C (-58°F~+140°F) / Less than 95% RH(Non-condensing)
Certification	IP66, IK10(Body only), NEMA4X, NEMA TS 2.2.8, NEMA TS 2.2.9
<b>Electrical</b>	
Input Voltage	HPoE(IEEE802.3bt, Class6, Type 3)
Power Consumption	HPoE Max. 40W, Typ. 20W
<b>Mechanical</b>	
Color / Material	White / body(Aluminum),dome(PC)
RAL Code	None
Product dimensions / weight	Ø158x293mm, 3.1Kg
Conduit hole	None
Hanging mount(Dome)	None
Skin cover(Dome)	None
Weather cap(Dome)	None
Power module	None
Backbox	None

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## 1.1 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

☒ AC 240 V, 50 Hz

## 1.2 Variant Model Differences

Not applicable

## 1.3 Device Modifications

Not applicable

## 1.4 Equipment Under Test

Description	Model Number	Serial Number	Manufacturer	Remarks
NETWORK CAMERA	XNP-6400R	-	HANWHA VISION VIETNAM COMPANY LIMITED	EUT
PoE Injector1	PT-PSE106GBR-AH-S	-	Dongguan PROCET Network Technology Co.,Ltd	-

## 1.5 Support Equipments

Description	Model Number	Serial Number	Manufacturer	Remarks
PoE Injector2	GS728TPP	-	NETGEAR	-
Notebook1	LG15N54	506NZGK000615	LG Electronics	-
Notebook1 Adapter	PA-1650-43(65W)	OF58U63849302 Y609	LG Electronics	-
Notebook2	LG15N54	410NZXE015458	LG Electronics	-
Notebook2 Adapter	ADP-90WH B	84ZW19F1747	DELTA ELECTRONICS (JIANGSU) LTD.	-
Micro SD Card	-	-	SanDisk	32 GB
LAN Card Ethernet Adapter	IpTIME U2500	-	EFM Networks Co., Ltd.	-



## 1.6 External I/O Cabling

Start		END		Cable Spec.	
Description	I/O Port	Description	I/O Port	Length	Shield
NETWORK CAMERA (EUT)	RJ-45	PoE Injector1 (EUT)	RJ-45 (PoE)	2.8	U
	Micro SD Slot	Micro SD Card	Micro SD Slot	-	-
PoE Injector1 (EUT)	RJ-45 (LAN)	Notebook1	RJ-45	3.5	U
	SFP	PoE Injector2	Optical	2.0	U
PoE Injector2	RJ-45	LAN Card Ethernet Adapter	RJ-45	2.0	U
Notebook2	USB	LAN Card Ethernet Adapter	USB	0.2	U

\* Unshielded=U, Shielded=S

## 1.7 EUT Operating Mode(s)

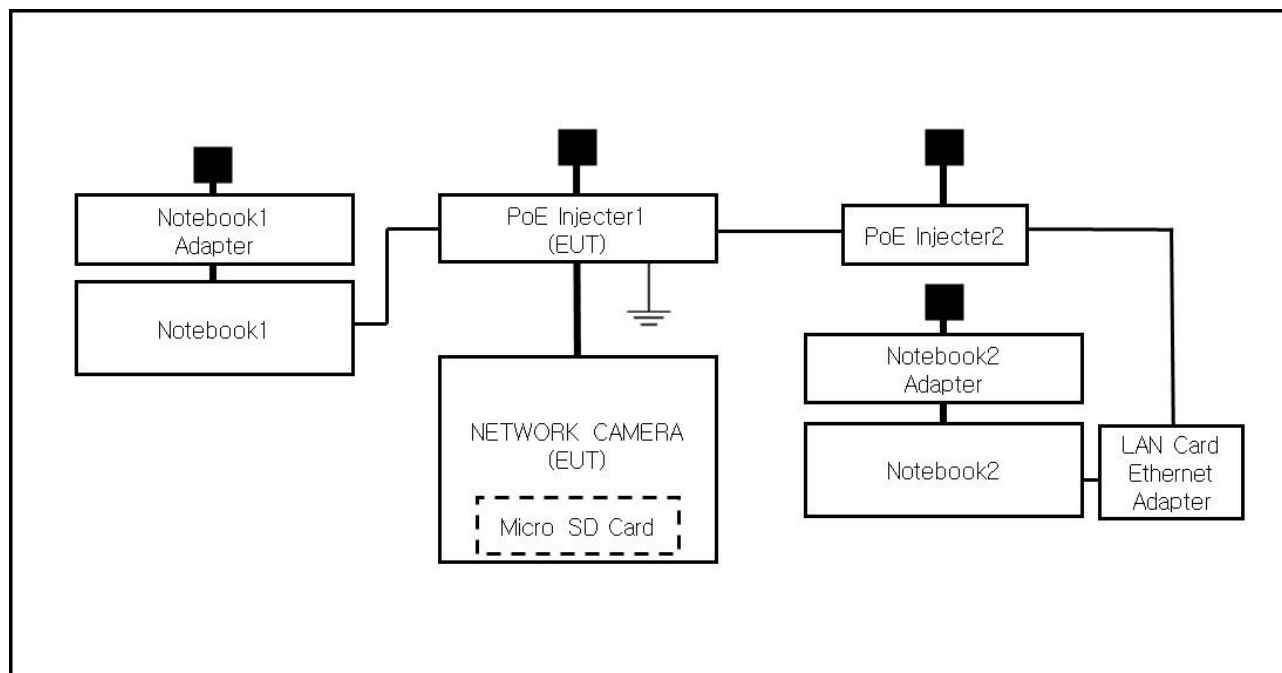
Test Mode	operating
Operation mode	EUT Monitoring, Ping Test

EUT Test operating S/W		
Name	Version	Manufacture Company
Web Viewer	-	Hanwha Vision Co., Ltd



## 1.8 Configuration

■ AC Main  
 □ DC Main



## 1.9 Remarks when standards applied

N/A







## 1.10 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less.

## 1.11 Test Facility

The measurement facility is located at 473-21, Gayeo-ro, Yeosu-si, Gyeonggi-do, 12658, Korea, Republic of. The sites are constructed in conformance with the requirements of ANSI C63.4a-2017 and CISPR 16-1-4:2019

## 1.12 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
KOREA	RRA	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KR0100
International	KOLAS	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 KT489
USA	FCC	3 m & 10 m Semi-Anechoic Chamber Conducted test site to perform FCC Part 15/18 measurements.	 KR0100
Canada	ISED	3 m & 10 m Semi-Anechoic Chamber and Conducted test site	 23298
JAPAN	VCCI	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site)	 C-20136, T-20137, R-20181, G-20176
Europe	TÜV SÜD	EMI (3 m & 10 m Semi-Anechoic Chamber and conducted test site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and interruptions)	 CARAT 001633 0004



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## 2.0 Test Regulations

The emissions tests were performed according to following regulations:

☒ **AS/NZS CISPR32:2015**

☒ Class A

☐ Class B

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## 2.1 Conducted Emissions at Mains Power Ports

### Test Date

Jan. 13, 2022

### Test Location

Electro wave Shieldroom #6

### Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 27, 2022
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022

### Test Conditions

Temperature: (22,6 ± 0,1) °C

Relative Humidity: (43,7 ± 0,1) % R.H.

### Frequency Range of Measurement

150 kHz to 30 MHz

### Instrument Settings

IF Band Width: 9 kHz

### Test Results

The requirements are:

- ☒ PASS  
☐ NOT PASS  
☐ NOT APPLICABLE

### Remarks

See Appendix A for test data.

## 2.2 Conducted Emissions at Telecommunication Ports

### Test Date

Jan. 13, 2022

### Test Location

Electro wave Shieldroom #6

### Test Equipment

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EMC32	R & S	9.12.00	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR3	R & S	101783	12, 28, 2022
<input checked="" type="checkbox"/>	LISN	ENV216	R & S	101787	12, 27, 2022
<input checked="" type="checkbox"/>	LISN	ESH2-Z5	R & S	100450	12, 27, 2022
<input checked="" type="checkbox"/>	PULSE LIMITER	ESH3-Z2	R & S	101915	12, 27, 2022
<input checked="" type="checkbox"/>	8-WIRE ISN CAT3,5	ENY81	R & S	100174	12, 28, 2022
<input type="checkbox"/>	ISN	ISN S8	SCHWARZBECK	ISN-S8-0019	03, 10, 2022

### Test Conditions

Temperature: (22,6 ± 0,1) °C  
Relative Humidity: (43,7 ± 0,1) % R.H.

### Frequency Range of Measurement

150 kHz to 30 MHz

### Instrument Settings

IF Band Width: 9 kHz

### Test Results

The requirements are:

- ☒ PASS  
☐ NOT PASS  
☐ NOT APPLICABLE

### Remarks

- See Appendix A for test data.
- For Ethernet interfaces, measurements are required at the highest data rate supported by the interface.

## 2.3 Radiated Electric Field Emissions(Below 1 GHz)

**Test Date**

Jan. 12, 2022

**Test Location**☐ OPEN AREA TEST SITE #2☒ SEMI ANECHOIC CHAMBER #4(10m)**Test Equipment**

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESU26	R & S	100551	04, 01, 2022
<input checked="" type="checkbox"/>	AMPLIFIER	SCU 01	R & S	100603	11, 24, 2022
<input checked="" type="checkbox"/>	TRILOG-BROADBAND ANTENNA	VULB9163	Schwarzbeck	715	12, 08, 2022
<input checked="" type="checkbox"/>	ATTENUATOR	8491A	HP	32173	03, 10, 2022

**Test Conditions**

Temperature: (22,8 ± 0,1) °C

Relative Humidity: (44,1 ± 0,2) % R.H.

**Frequency Range of Measurement**

30 MHz to 1 GHz

**Instrument Settings**

IF Band Width: 120 kHz

**Test Results**

The requirements are:

- ☒ PASS  
☐ NOT PASS  
☐ NOT APPLICABLE

**Remarks**See Appendix A for test data.

## 2.4 Radiated Electric Field Emissions(Above 1 GHz)

**Test Date**

Jan. 12, 2022

**Test Location**

SEMI ANECHOIC CHAMBER #3

**Test Equipment**

Used	Description	Model Number	Manufacturer	Serial Number	Cal. Due
<input checked="" type="checkbox"/>	EMI Test S/W	EP5/RE	TOYO Corporation	6.0.0	-
<input checked="" type="checkbox"/>	EMI TEST RECEIVER	ESR7	R & S	101190	08, 03, 2022
<input checked="" type="checkbox"/>	PREAMPLIFIER	8449B	AGILENT	3008A01967	04, 07, 2022
<input type="checkbox"/>	ATTENUATOR	8491A	HP	35496	03, 10, 2022
<input checked="" type="checkbox"/>	DOUBLE RIDGED HORN ANTENNA	SAS-571	A.H.SYSTEM,INC	781	03, 11, 2022

**Test Conditions**

Temperature: (23,0 ± 0,2) °C

Relative Humidity: (43,9 ± 0,2) % R.H.

**Frequency Range of Measurement**

1 GHz to 6 GHz

**Instrument Settings**

IF Band Width: 1 MHz

**Test Results**

The requirements are:

- ☒ PASS  
☐ NOT PASS  
☐ NOT APPLICABLE

**Remarks**See Appendix A for test data.

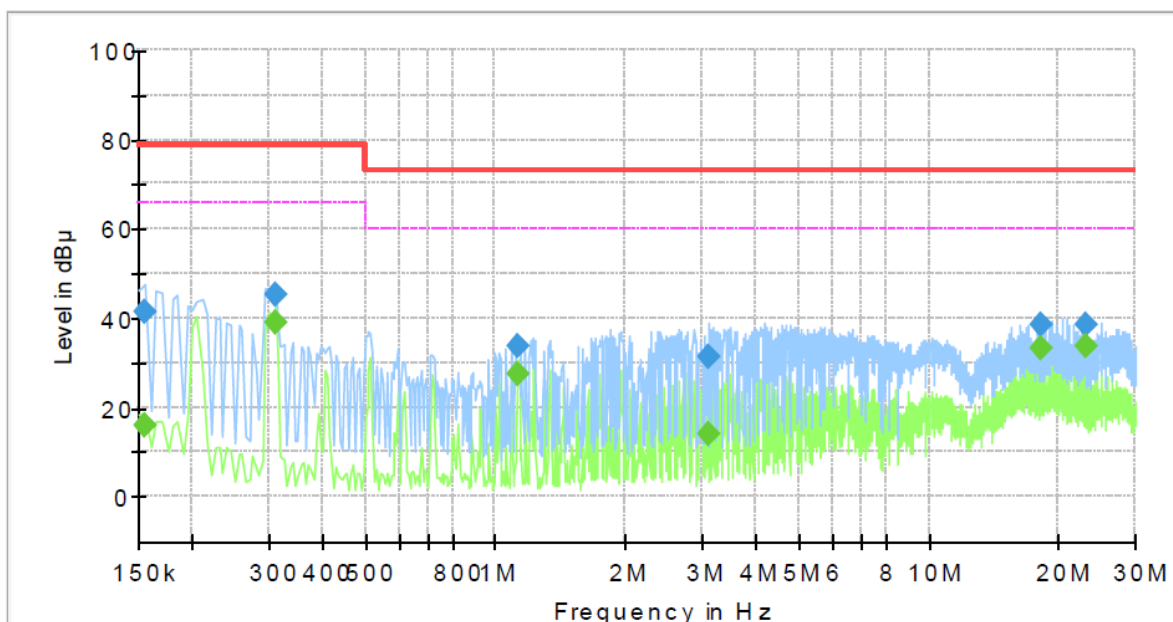
## APPENDIX A – TEST DATA

### Conducted Emissions at Mains Power Ports

HOT LINE

#### Common Information

Test Description: Conducted Emission  
 Model No.: XNP-6400R  
 Phase: L1  
 Mode:  
 Operator Name: KES



#### Final\_Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.155000	---	15.93	66.00	50.07	1000.0	9.000	L1	19.5
0.155000	41.55	---	79.00	37.45	1000.0	9.000	L1	19.5
0.310000	---	38.83	66.00	27.17	1000.0	9.000	L1	19.6
0.310000	45.35	---	79.00	33.65	1000.0	9.000	L1	19.6
1.125000	---	27.59	60.00	32.41	1000.0	9.000	L1	20.1
1.125000	33.57	---	73.00	39.43	1000.0	9.000	L1	20.1
3.095000	---	13.97	60.00	46.03	1000.0	9.000	L1	20.2
3.095000	31.08	---	73.00	41.92	1000.0	9.000	L1	20.2
18.245000	---	33.35	60.00	26.65	1000.0	9.000	L1	20.1
18.245000	38.43	---	73.00	34.57	1000.0	9.000	L1	20.1
23.130000	---	33.66	60.00	26.34	1000.0	9.000	L1	20.2
23.130000	38.46	---	73.00	34.54	1000.0	9.000	L1	20.2

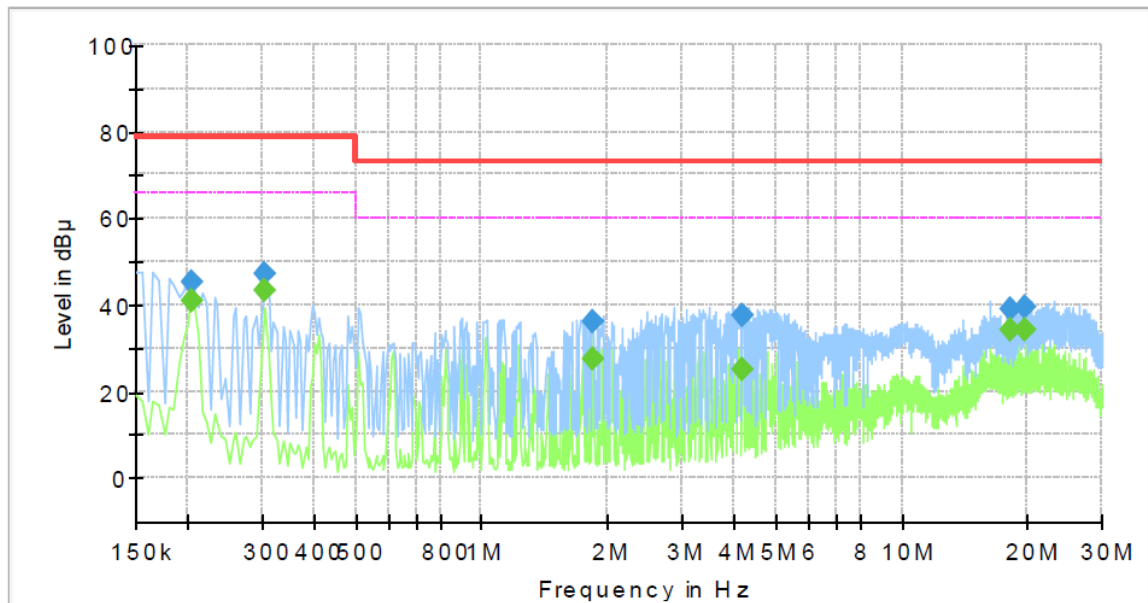
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## NEUTRAL LINE

### Common Information

Test Description: Conducted Emission  
 Model No.: XNP-6400R  
 Phase: N  
 Mode:  
 Operator Name: KES



### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.205000	---	40.92	66.00	25.08	1000.0	9.000	N	19.5
0.205000	45.13	---	79.00	33.87	1000.0	9.000	N	19.5
0.305000	---	43.27	66.00	22.73	1000.0	9.000	N	19.6
0.305000	47.11	---	79.00	31.89	1000.0	9.000	N	19.6
1.840000	---	27.43	60.00	32.57	1000.0	9.000	N	20.3
1.840000	36.02	---	73.00	36.98	1000.0	9.000	N	20.3
4.175000	---	25.05	60.00	34.95	1000.0	9.000	N	19.9
4.175000	37.58	---	73.00	35.42	1000.0	9.000	N	19.9
18.245000	---	33.99	60.00	26.01	1000.0	9.000	N	20.1
18.245000	39.13	---	73.00	33.87	1000.0	9.000	N	20.1
19.710000	---	34.14	60.00	25.86	1000.0	9.000	N	20.2
19.710000	39.30	---	73.00	33.70	1000.0	9.000	N	20.2

#### ◆ Calculation

QuasiPeak[dBuV] / CAverage [dBuV] = Reading Value[dBuV] + Corr. [dB]

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (LISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

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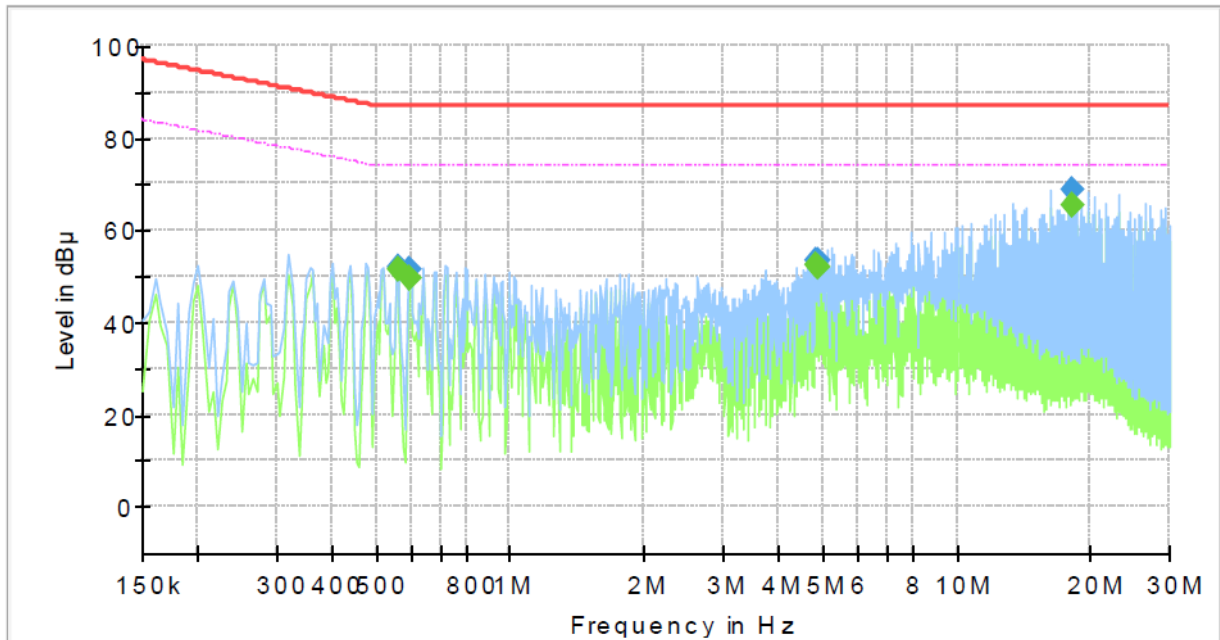
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## Conducted Emissions at Telecommunication Ports [100 Mbps]

### Common Information

Test Description:	Telecommunication Emission
Model No.:	XNP-6400R
Mode :	
Speed :	100 Mbps
Operator Name:	KES



### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.560000	---	51.55	74.00	22.45	1000.0	9.000	Single Line	19.8
0.560000	51.83	---	87.00	35.17	1000.0	9.000	Single Line	19.8
0.595000	---	49.79	74.00	24.21	1000.0	9.000	Single Line	19.9
0.595000	51.71	---	87.00	35.29	1000.0	9.000	Single Line	19.9
4.865000	---	52.53	74.00	21.47	1000.0	9.000	Single Line	19.5
4.865000	53.30	---	87.00	33.70	1000.0	9.000	Single Line	19.5
4.905000	---	51.96	74.00	22.04	1000.0	9.000	Single Line	19.5
4.905000	53.40	---	87.00	33.60	1000.0	9.000	Single Line	19.5
18.245000	---	65.48	74.00	8.52	1000.0	9.000	Single Line	19.9
18.245000	68.56	---	87.00	18.44	1000.0	9.000	Single Line	19.9

#### ◆ Calculation

$$\text{QuasiPeak [dBuV]} / \text{CAverage [dBuV]} = \text{Reading Value [dBuV]} + \text{Corr. [dB]}$$

QuasiPeak / CAverage : The Final Value

Reading Value : Not shown in the table.

Corr. : Correction values (ISN FACTOR + (Cable Loss + Pulse Limiter FACTOR))

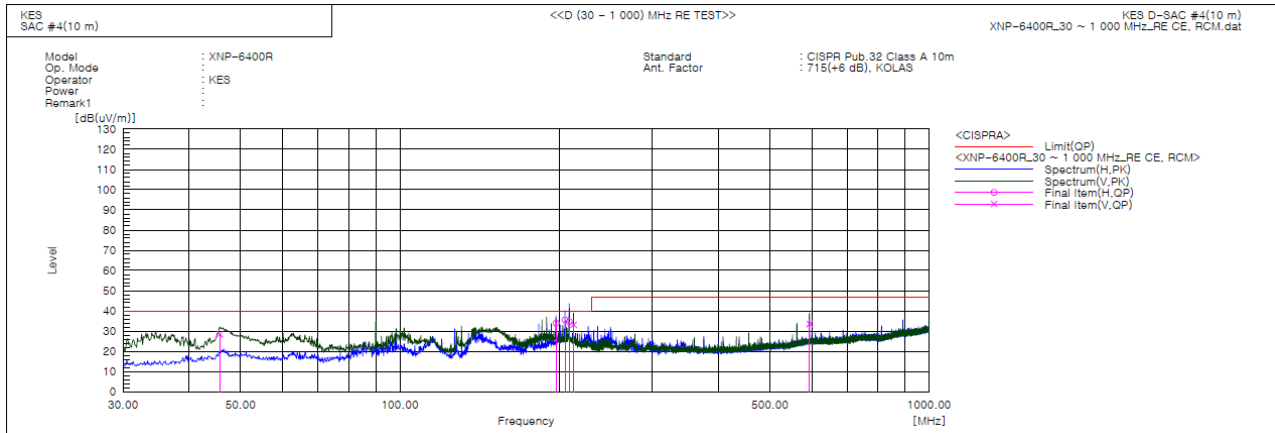
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## Radiated Electric Field Emissions(Below 1 GHz)



### Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	45.673	V	49.7	-21.2	28.5	40.0	11.5	144.0	147.0	
2	197.242	H	54.9	-21.0	33.9	40.0	6.1	351.0	278.0	
3	205.136	H	56.2	-20.7	35.5	40.0	4.5	373.0	236.0	
4	208.923	H	55.3	-20.6	34.7	40.0	5.3	372.0	60.0	
5	212.882	V	53.7	-20.5	33.2	40.0	6.8	156.0	113.0	
6	594.114	V	42.0	-8.4	33.6	47.0	13.4	106.0	202.0	

### ◆ Calculation

Result(QP) [dB(μV/m)] = (Reading(QP)[dB(μV)] + c.f[dB(1/m)])

Margin(QP)[dB] = Limit[dB(μV/m)] - Result(QP) [dB(μV/m)]

Reading(QP) : Reading value, Result(QP) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value



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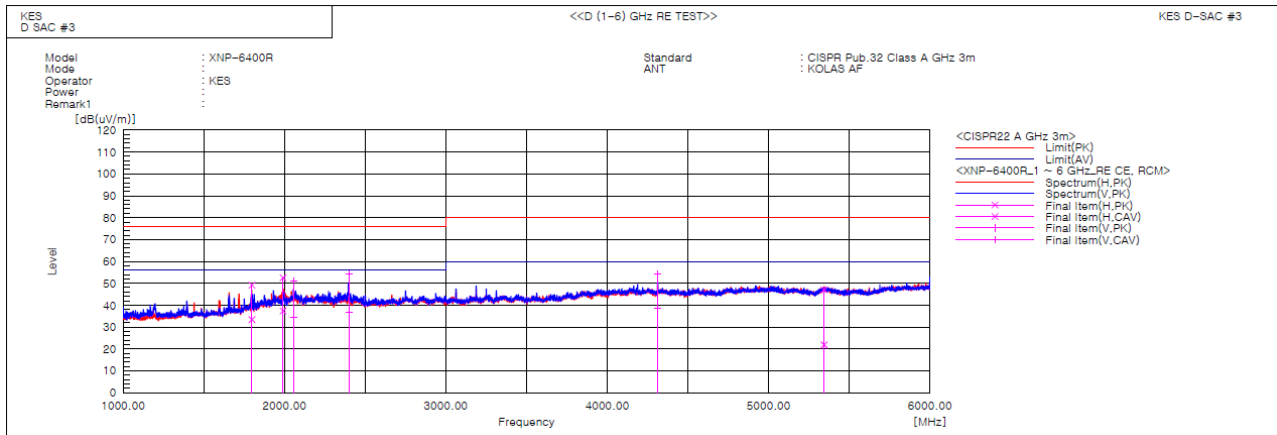
3701, 40, Simin-daero 365beon-gil,  
Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea  
Tel: +82-31-425-6200 / Fax: +82-31-424-0450  
www.kes.co.kr

Report No.:

KES-EM-22T0120-R1

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## Radiated Electric Field Emissions(Above 1 GHz)



### Final Result

No.	Frequency [MHz]	(P)	Reading PK [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB(1/m)]	Result PK [dB(uV/m)]	Result CAV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle [deg]	Remark
1	1797.428	H	52.2	36.5	-3.1	49.1	33.4	76.0	56.0	26.9	22.6	100.0	150.9	
2	1991.187	H	53.6	38.4	-1.1	52.5	37.3	76.0	56.0	23.5	18.7	100.0	117.6	
3	2055.419	V	51.8	35.1	-0.8	51.0	34.3	76.0	56.0	25.0	21.7	100.0	182.6	
4	2398.558	V	54.1	36.5	0.2	54.3	36.7	76.0	56.0	21.7	19.3	100.0	224.0	
5	4313.241	V	47.1	31.4	7.0	54.1	38.4	80.0	60.0	25.9	21.6	100.0	192.8	
6	5344.148	H	38.8	13.6	8.3	47.1	21.9	80.0	60.0	32.9	38.1	100.0	329.0	

### ◆ Calculation

Result(PK/CAV) [dB( $\mu$ V/m)] = (Reading(PK/CAV)[dB( $\mu$ V)] + c.f[dB(1/m)])

Margin(PK/CAV)[dB] = Limit[dB( $\mu$ V/m)] - Result(PK/CAV) [dB( $\mu$ V/m)]

Reading(PK/CAV) : Reading value, Result(PK/CAV) : Reading value + Factor value

Limit(QP) : Limit value, c.f : (ANT Factor + Cable Loss - Preamp Factor), Margin: Margin value

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## Test Setup Photos and Configuration

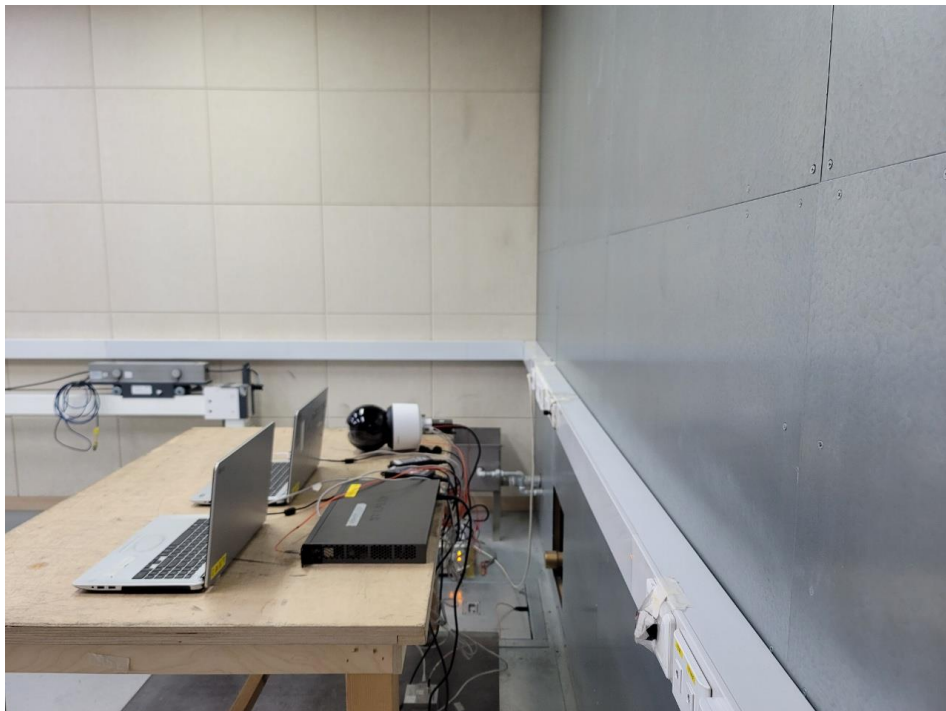
### Conducted Emissions at Mains Power Ports



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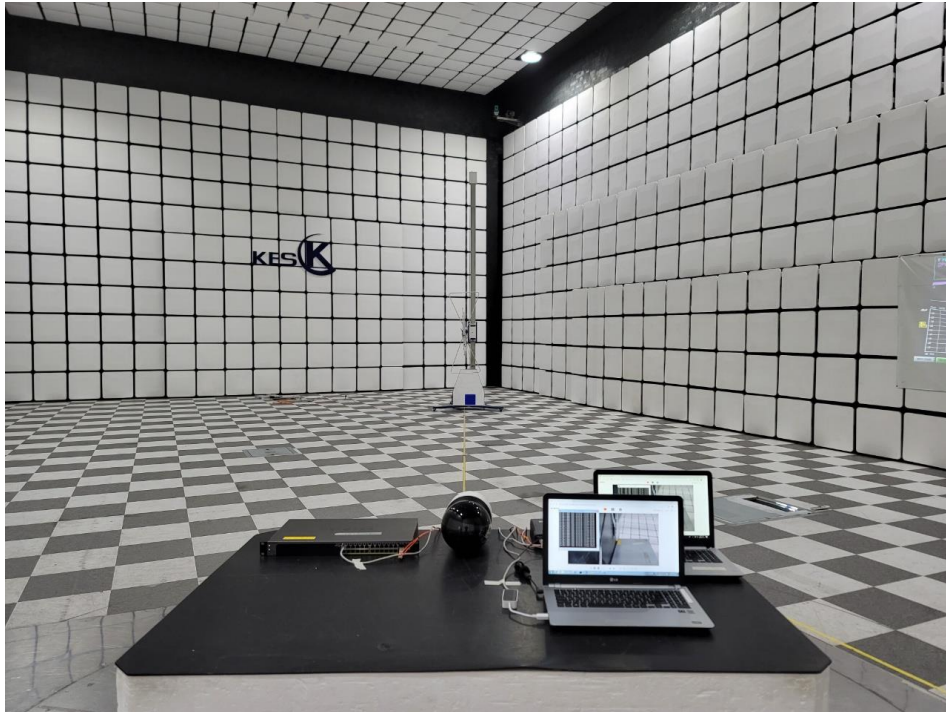


## Conducted Emissions at Telecommunication Ports



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## Radiated Electric Field Emissions(Below 1 GHz)



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## Radiated Electric Field Emissions(Above 1 GHz)



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## EUT External Photographs

(Top)



(Bottom)



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## EUT Internal Photographs

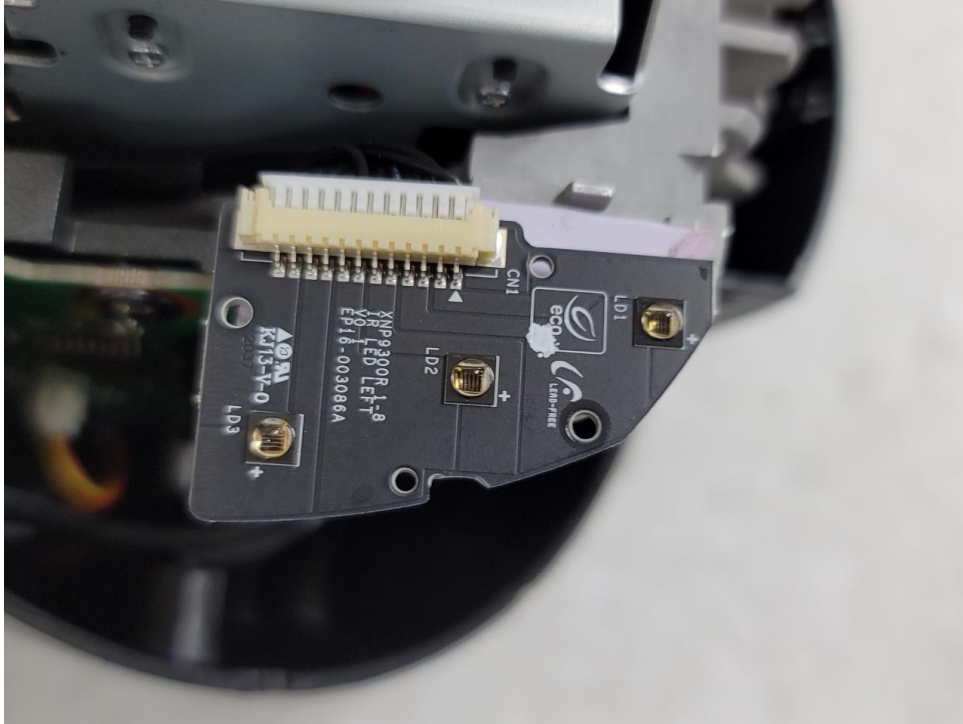
(Internal View)



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## EUT Internal View – Board 1

(Top)



(Bottom)

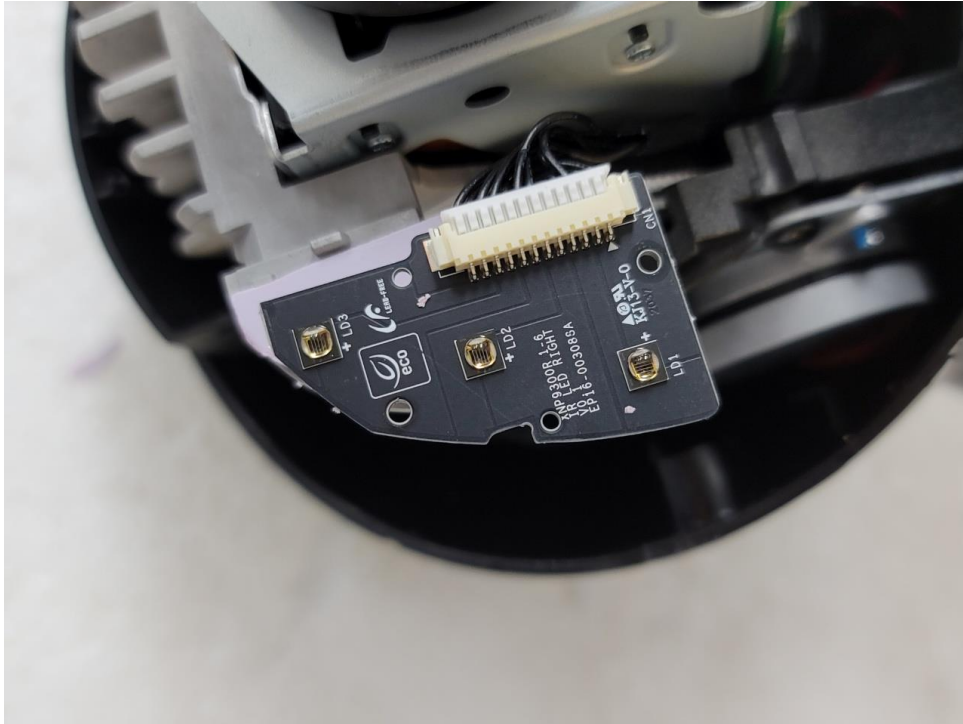


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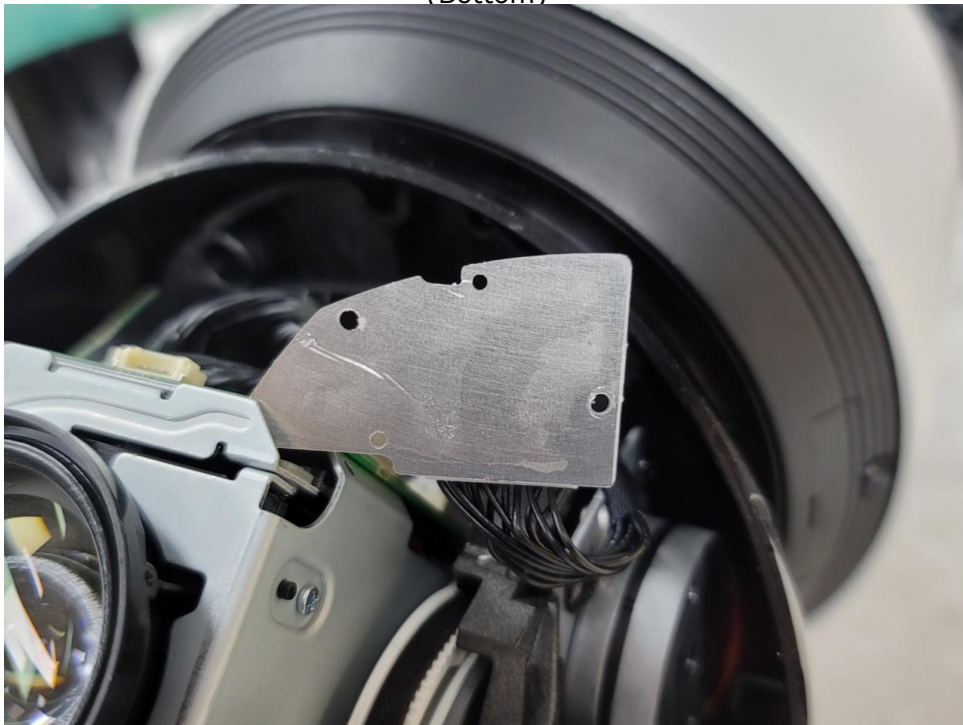


**EUT Internal View – Board 2**

(Top)



(Bottom)



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## EUT Internal View – Board 3

(Top)



(Bottom)

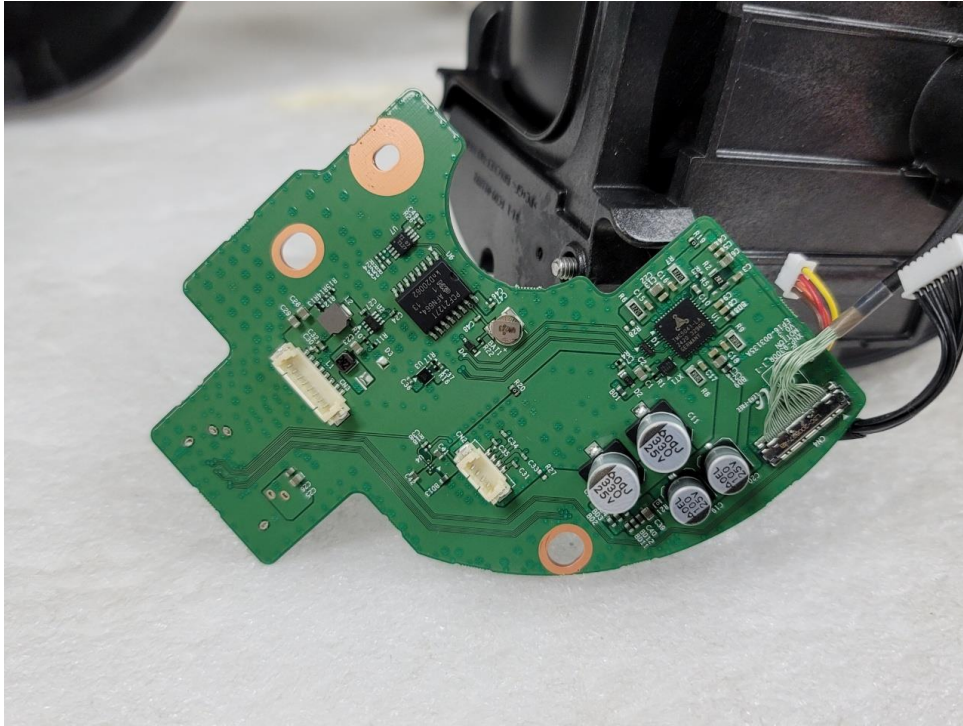


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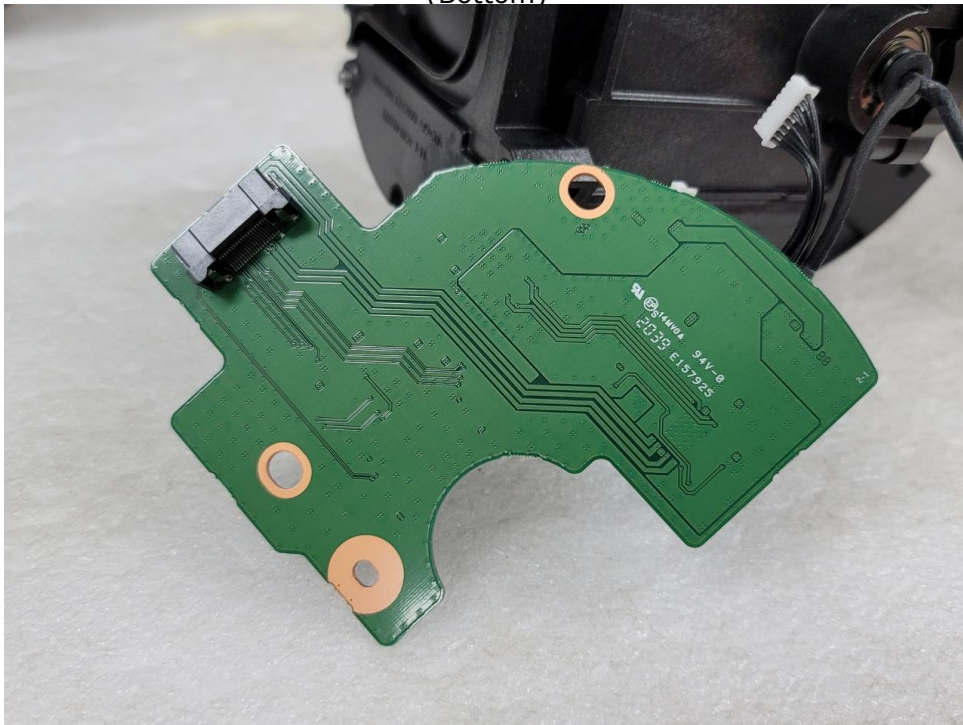


## EUT Internal View – Board 4

(Top)



(Bottom)



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## EUT Internal View – Board 5

(Top)



(Bottom)



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## EUT Internal View – Board 6

(Top)



(Bottom)

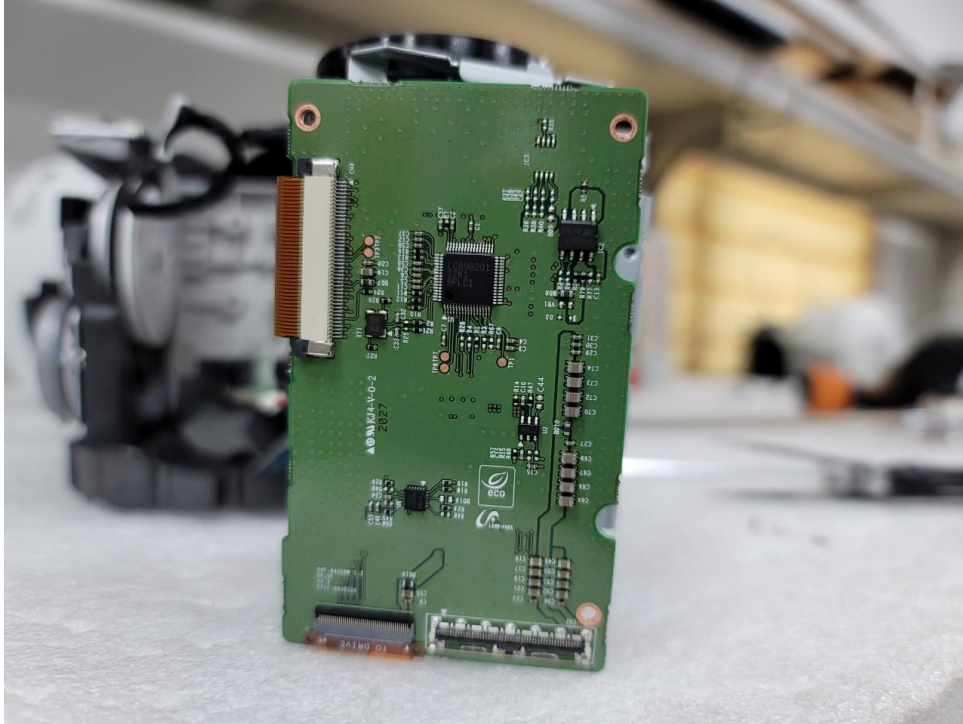


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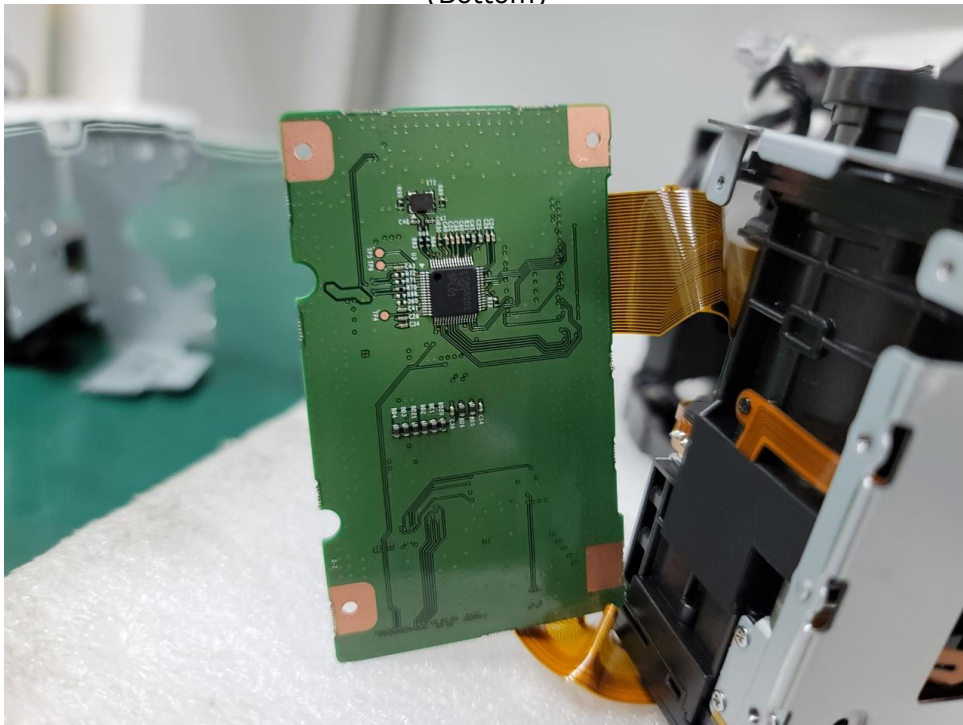


## EUT Internal View – Board 7

(Top)



(Bottom)



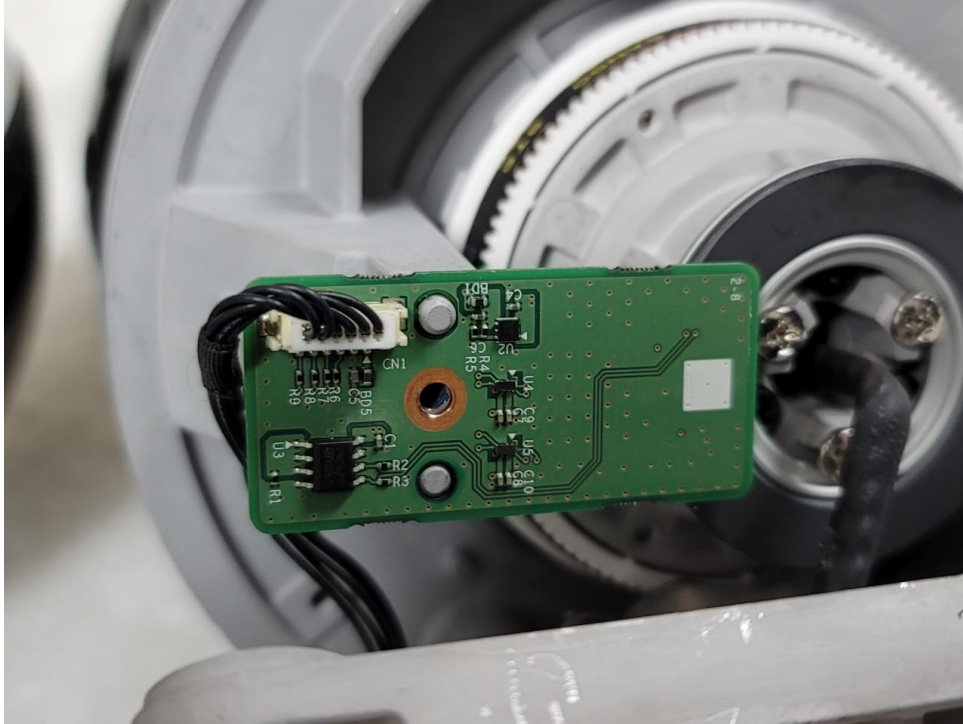
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## EUT Internal View – Board 9

(Top)



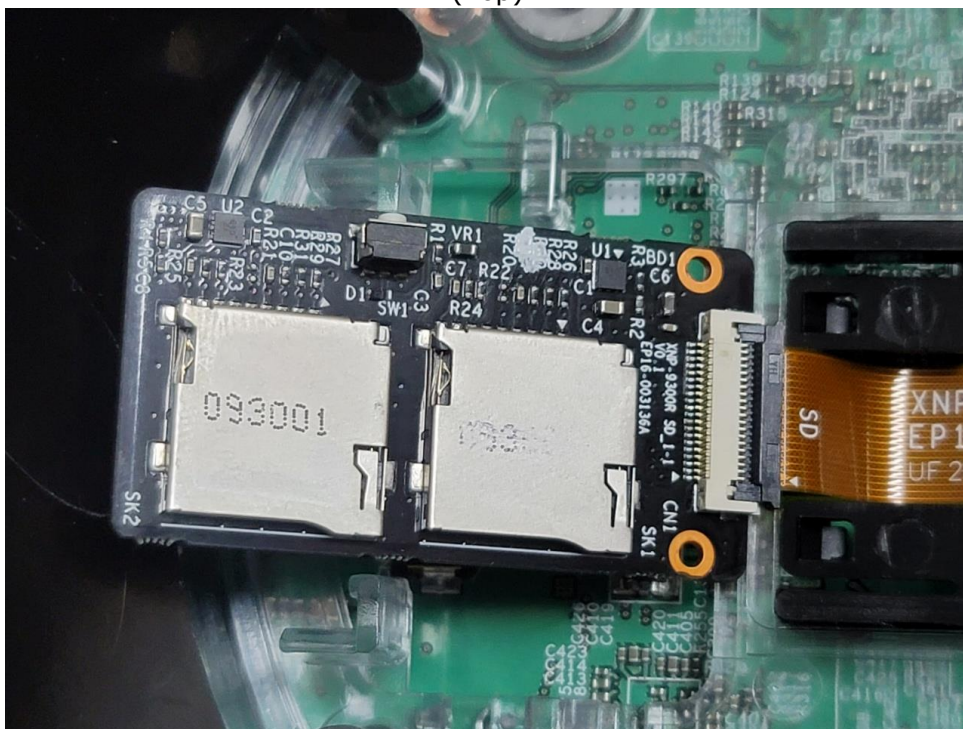
(Bottom)



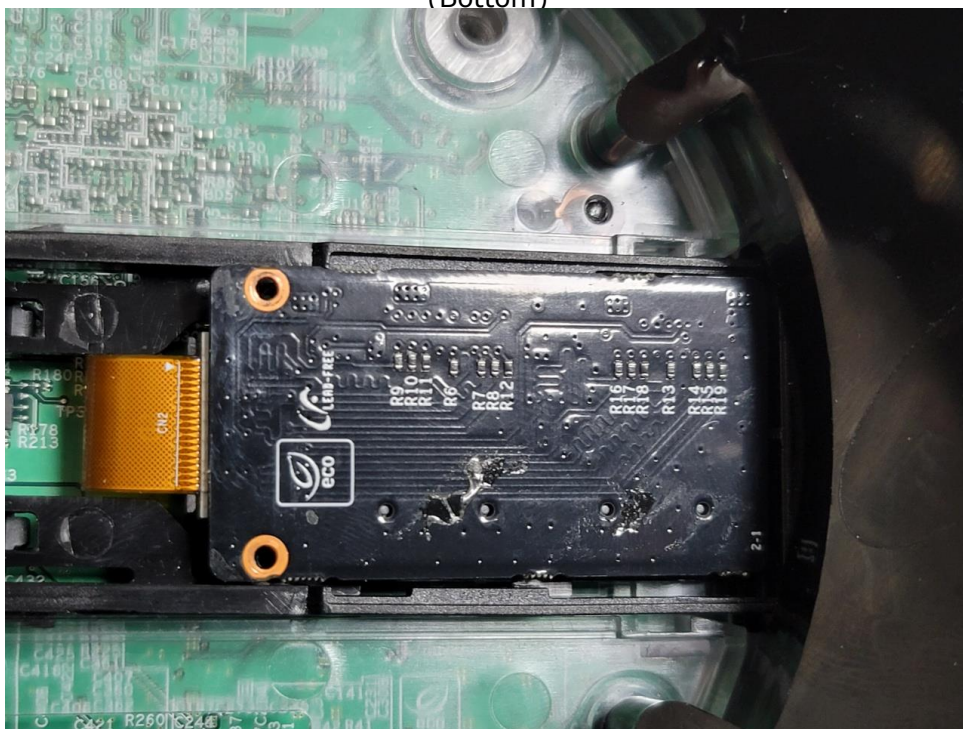
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## EUT Internal View – Board 10

(Top)



(Bottom)

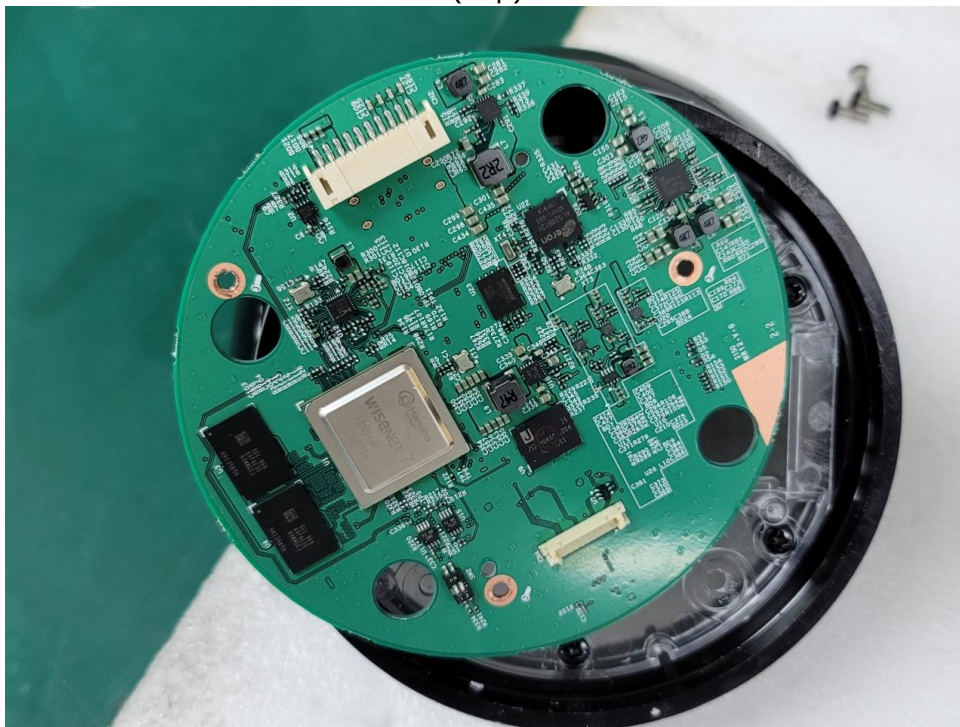


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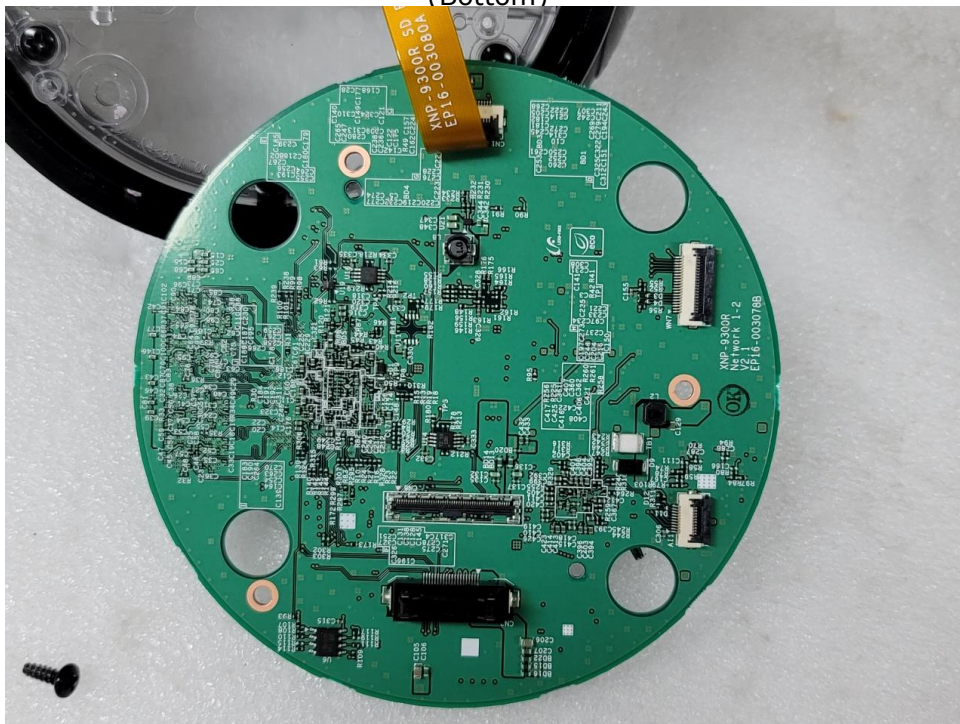


## EUT Internal View – Board 11

(Top)



(Bottom)



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## EUT Internal View – Lens

(Top)



(Bottom)



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## EUT Internal View – PoE Injector

(Top)



(Bottom)



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